

WHAT IS CLAIMED IS:

- 1 1. A computer system for multi-processing purposes, the computer
2 system comprising:
 - 3 a console comprising a first coupling site and a second coupling site; each
4 coupling site comprising a connector, the console being an enclosure that is capable of
5 housing each coupling site;
 - 6 a plurality of computer modules, each of the computer modules coupled to
7 a connector, each of the computer modules comprising a processing unit, a main memory
8 coupled to the processing unit, a graphics controller coupled to the processing unit, and a
9 mass storage device coupled to the processing unit;
 - 10 wherein each of the computer modules is substantially similar in design to
11 each other to provide independent processing of each of the computer modules in the
12 computer system.
- 1 2. The computer module of claim 1 wherein any two of the computer
2 modules can replace each other in operation.
- 1 3. The computer system of claim 1 wherein each of the connectors is
2 coupled to each other by a serial communication channel.
- 1 4. The computer system of claim 1 wherein each of the connectors is
2 coupled to each other through an Ethernet connection.
- 1 5. The computer system of claim 1 wherein each of the connectors is
2 coupled to each other through a Universal Serial Bus 2.0 and higher connection.
- 1 6. The computer system of claim 1 wherein the console further
2 comprises a serial communication hub controller, the serial communication hub controller
3 being adapted to transfer data between any two of the computer modules.
- 1 7. The computer system of claim 6 wherein the serial communication
2 hub controller comprises an Ethernet connection coupled to an external network.

1 8. The computer system of claim 1 wherein each of the computer
2 modules comprises an independent power supply to allow each of the computer modules
3 to operate independent from each other.

1 9. The computer system of claim 1 wherein the independent
2 processing is for a single user.

1 10. The computer system of claim 1 wherein any one of the plurality of
2 computer modules provides a back up from another one of the plurality of computer
3 modules.

1 11. The computer system of claim 1 wherein each of the connectors
2 comprises IDE bus signals.

1 12. The computer system of claim 1 wherein each of the connectors
2 comprises a PCI bus connection.

1 13. The computer system of claim 1 wherein each coupling site is a
2 slot, where each computer module engages into its respective slot.

1 14. A multi-processing computer system, said system comprising:
2 a console comprising a first coupling site and a second coupling site; each
3 coupling site comprising a connector, the console being an enclosure that is capable of
4 housing each coupling site;

5 a plurality of computer modules, each of the computer modules coupled to
6 a connector, each of the computer modules comprising a processing unit, a main memory
7 coupled to the processing unit, a graphics controller coupled to the processing unit, a
8 mass storage device coupled to the processing unit; and a video output coupled to the
9 processing unit, each of the computer modules being substantially similar in design to
10 each other to provide independent processing of each of the computer modules in the
11 computer system; and

12 a video switch circuit coupled to each of the computer modules through
13 the video output, the video switch being configured to switch a video signal from any one
14 of the computer modules to a display.

1 15. The system of claim 14 wherein the display is coupled to the
2 console through a single connector, the single connector coupling to each video output
3 and also coupled to the video switch.

1 16. The system of claim 14 further comprising a user interface device
2 switch coupled to each of the computer modules and coupled to a user interface device,
3 the user interface device switch being adapted to connect the user interface device to
4 either one of the computer modules.

1 17. The system of claim 16 wherein the user interface device
2 comprises a keyboard and a mouse.

1 18. The computer system of claim 1 wherein the console further
2 comprises of connections to two display monitors.

1 19. The computer system of claim 1 wherein the console further
2 comprises of connections to two keyboards and two mouse devices.

1 20. The computer system of claim 1 wherein the console further
2 comprises of two independent power supplies each coupled to one of the two computer
3 modules.